AIR BAND TRANSCEIVERS

PRODUCT CATALOG



Professional Grade Yaesu Legendary Rugged Construction and High Performance



VOR Navigation

ILS Navigation

Supplied accessories:

Flight Route Display and Navigation

·Li-lon Battery Pack •Charger Cradle •AC Charger

•Cigarette Lighter DC/DC Converter •Antenna •Belt Clip

•Headset Adapter Cable •Alkaline Battery Tray •USB Cable

Full-Color Display

Bluetooth

GPS

MIL-STD-810H

Superior Visibility and Operability ILS Navigation (Localizer & Glide Slope)

High resolution Full color Display ILS (Localizer & Glide Slope) Equipped **VOR Navigation and Integrated GPS Receiver** Flight-Route Display and Navigation

- 6 Watts TX Output Power (Air Band: AM 6W, P.E.P. typical, 1.8W carrier)
- Oversized 2.4-inch & TFT Color Display (240 × 320 pixel)
- Dual Frequency Display (DD)
- Bluetooth® wireless Operation*¹
- ILS Navigation Display (Localizer and Glide Slope)
- VOR Navigation Display
- Integrated 66 Channel WAAS GPS receiver
- Waypoint Navigation
- Flight-Route Display and Navigation
- Available GPS Position Logging operation*2
- 8.33 kHz Narrow Band compatible
- NOAA Weather Channel Receive*3
- NOAA Weather Alert*3
- 400 Memory Channels with 14 character alphanumeric tags
- · Back-lit Keypad and Display, with Dimmer
- Water Protection IPX5 Rating
- Rugged Construction: Certified to MIL-STD-810H
- Loud Audio Output (0.8W)
- · Noise-canceling function for both transmit and receive audio
- Includes High-Capacity Rechargeable Li-ion Battery Pack (7.2V, 2200mAh)
- Includes Alkaline Battery Tray (AA × 6)
- · External-DC input for operation and charging
- PC Programmable (Included micro USB Cable)
- *1 Requires the optional Bluetooth headset (SSM-BT10) or a commercially available headset. *2 The YCE46 PC Programming Software (available online) is required to view the GPS Log data.
- *3 NOAA Weather alert: when available in-service area.

When the FTA-850L receives an ILS signal, the display will automatically switch to the NAV band screen which shows a CDI (course deviation indicator) based on the received localizer signal or the glide slope signal. Course and height deviation are clearly presented on the color CDI display, and aid with the landing approach under bad weather conditions.

When the FTA-850L receives a VOR signal, the display automatically switches to NAV band

screen and shows the CDI. The top of the compass rose always indicates the direction

set as the OBS. The SOG (speed over ground) is

displayed only when the FTA-850L internal

Flight-Route Display & Navigation

The Flight Route Navigation feature clearly

presents the traveling route, listing the

waypoints from the departure point to the

final destination, including the current position

where Navigation is being performed. Route,

location and travel status can be assessed at a

glance. Also, navigation is displayed on an

DD (Dual Frequency Display) screen presents two frequencies separately on the top and

bottom of the screen. The most recently

tuned information (Comm frequency, Memory

group and Weather channel) are always set

into the active channel automatically. The

target mode and channel can easily be

switched between different modes using the

DD screen, without going through the MENU.

easy-to-read color compass screen.

Dual Frequency Display

GPS unit is activated and acquires a fix.

VOR Navigation

NAV LOC GS % LOG KLAX-RWY07R







162.550 WX01

GPS

MIL-STD-810F

Enhanced Performance

ILS (Localizer & Glide Slope) Equipped VOR Navigation and Integrated GPS receiver

Features

- 5 Watts TX Output Power (Air Band: AM 5W P.E.P. typical, 1.5W carrier)
- Huge 1.7"× 1.7" (43.2 × 43.2mm) Full-Dot Matrix Display (160 × 160 dots)
- ILS Navigation Display (Localizer and Glide Slope)
- VOR Navigation Display
- Integrated 66 Channel WAAS GPS receiver
- Waypoint Navigation
- Available GPS Position Logging operation*1
- 8.33kHz Narrow Band compatible
- NOAA Weather Channel Receive*2
- NOAA Weather Alert*2
- 200 Memory Channels with 15 character alphanumeric tags
- Back-lit Keypad and Display with Dimmer
- Water Protection IPX5 Rating
- Rugged Construction: Certified to MIL-STD-810F
- Loud Audio (0.8W)
- · Includes High-Capacity Rechargeable Li-Ion Battery Pack (7.2V, 2200mAh)
- Includes Alkaline Battery Tray (AA × 6)
- External-DC input for operation and charging
- PC Programmable (Included USB Cable)
- *1 The YCEO1 PC Programming Software (available online) is required to view the GPS Log data. *2 Only available in NOAA weather service areas.

ILS Navigation (Localizer & Glide Slope)

Course deviation based on the received localizer signal, and altitude deviation based on the received glide slope signal, can be easily visualized on the CDI display.

The superior visibility aids in the landing approach during bad weather conditions.



Height deviation

Waypoint Navigation

The navigation feature of the FTA-750L presents a compass that helps determine the destination and bearing at a

VOR Navigation

a VOR signal, the display will

CDI based on the



When the FTA-750L receives automatically switch to the NAV band screen and show received signal. The SOG

Course indicator

Course deviation

sog (speed over

(speed over ground) is displayed only when the internal FTA-750L GPS unit is activated and acquires a fix.

FTA-750L

VOR Navigation ILS Navigation

Supplied accessories:

·Li-Ion Battery Pack •Charger Cradle •AC Charger •Cigarette Lighter DC/DC Converter •Antenna •Belt Clip ·Headset Adapter Cable ·Alkaline Battery Tray ·USB Cable





FTA-550L

VOR Navigation ILS Navigation (Localizer)

Supplied accessories:

- •Li-lon Battery Pack •Charger Cradle •AC Charger
- -Cigarette Lighter DC/DC Converter -Antenna -Belt Clip
 -Headset Adapter Cable -Alkaline Battery Tray -USB Cable

Professional Specifications Advanced Operation with ILS (Localizer), VOR Navigation

Features

- 5 Watts TX Output Power (Air Band: AM 5W P.E.P. typical, 1.5W carrier)
- Huge 1.7" \times 1.7"(43.2 \times 43.2mm) Full-Dot Matrix Display (160 \times 160 dots)
- ILS Navigation Display (Localizer)
- VOR Navigation Display
- 8.33kHz Narrow Band compatible
- NOAA Weather Channel Receive*2
- NOAA Weather Alert*2
- · 200 Memory Channels with 15 character alphanumeric tags
- · Back-lit Keypad and Display with Dimmer
- Water Protection IPX5 Rating
- Rugged Construction: Certified to MIL-STD-810F
- Loud Audio (0.8W)
- Includes High-Capacity Rechargeable Li-Ion Battery Pack (7.2, V 2200mAh)
- Includes Alkaline Battery Tray (AA × 6)
- · External-DC input for operation and charging
- PC Programmable (Included USB Cable)

FTA-550

AA Battery Version . Alkaline Battery Tray . USB Cable

Supplied accessories:

Cigarette Lighter DC/DC Converter

•Antenna •Belt Clip •Headset Adapter Cable

ILS Navigation (Localizer)

Course deviation based on the received localizer signal can be clearly viewed on the CDI display. The superior visibility aids in the landing approach during bad weather conditions.



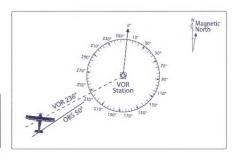
VOR Navigation

When the FTA-550 receives a VOR signal, the display will automatically switch to the NAV band screen and show the CDI based on the received signal.



Course indicator (OBS direction)

Course deviation needle





FTA-450L

Supplied accessories:

•Li-lon Battery Pack •Charger Cradle •AC Charger
•Cigarette Lighter DC/DC Converter •Antenna
•Belt Clip •Headset Adapter Cable
•Alkaline Battery Tray •USB Cable

Advanced User Interface Oversize 1.7" × 1.7" Full-Dot Matrix Display Assuring intuitive operation

Features

- 5 Watts TX Output Power (Air Band: AM 5W, P.E.P. typical, 1.5W carrier)
- Huge 1.7"× 1.7" (43.2 × 43.2mm)
 Full-Dot Matrix Display (160 × 160 dots)
- · Loud Audio (0.8W)
- 8.33kHz Narrow Band compatible
- 200 Memory Channels with 15 character alphanumeric tags
- Water Protection IPX5 Rating
- Rugged Construction: Certified to MIL-STD-810F
- Includes High-Capacity Rechargeable Li-ion Battery Pack (7.2V, 2200mAh)
- External-DC input for operation and charging
- Includes Alkaline Battery Tray (AA × 6)
- NOAA Weather Channel Receive*2
- NOAA Weather Alert*2
- Back-lit Keypad and Display with Dimmer
- PC Programmable (Included USB Cable)

MIL-STD-810F ANY MARKET PRODUCTION AND ADDRESS OF THE PRODUCTION ADDRESS OF THE PRODUCTION

FTA-250L

Supplied accessories:

- •Li-lon Battery Pack •Charger Cradle •AC Adapter •Cigarette Lighter DC/DC Converter •Antenna
- •Belt Clip •Headset Adapter Cable

Ultra Compact and Rugged Construction

0.7W Loud Audio and Noise-Canceling Feature built into a Compact case

Features

- 5 Watts TX Output Power (Air Band: AM 5W, P.E.P. 1.5W carrier)
- Compact Design, Measuring 2.1" × H4.1" × D1.2" (52 × 105 × 30mm)
- Rugged Construction: Certified to MIL-STD-810F
- Loud Audio (0.7W)
- Noise-canceling function for both transmit and receive audio
- · 8.33kHz Narrow Band compatible
- 250 Memory Channels
- Includes High-Capacity Rechargeable Li-ion Battery Pack (7.4V, 1950mAh)
- External-DC input for operation and charging
- AF Pitch Control
- · Flip Flop Last Channel Recall
- Dual Watch
- NOAA Weather Channel Receive*²
- NOAA Weather Alert*2
- Back-lit Keypad and Display with Dimmer
- PC Programmable (Requires Optional USB Cable :SCU-37)
- *2 Only available in NOAA weather service areas.

Specifications

	FTA-850L	FTA-750L	FTA-550L / FTA-550	FTA-450L	FTA-250L	
General						
Frequency Range	tency Range TX: 118.000 to 136.9916 MHz TX: 118.000 RX: 108.000 to 136.9916 MHz RX: 108.000 to 136.9916 MHz RX: 108.000 to 136.9916 MHz RX: 108.000 (NAV and COM) (NAV and COM) (NAV and COM) (Weather Channels*1) (Weather Channels*1)		DX: 118.000 to 136.9916 MHz XX: 108.000 to 136.9916 MHz XX: 118.000 to 136.9916 MHz XX: 108.000 to 136.9916 MHz XX		TX: 118.000 to 136.9916 MHz RX: 118.000 to 136.9916 MHz 161.650 to 163.275 MHz (Weather Channels* ¹)	
Channel Spacing	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	
Emission Type	TX; AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	
Supply Voltage	6.0 to 9.5 VDC	6.0 to 9.5 VDC	6.0 to 9.5 VDC	6.0 to 9.5 VDC	6.0 to 9.5 VDC	
Current Consumption (approx.)	300 µA (power off) 125 mA (battery saver on, saver ratio 50 %, GPS on) 160 mA (squelch on, GPS on) 300 mA (receive) 1.1 A (transmit 1.8 W Carrier)	300 µA (power off) 80 mA (battery saver on, saver ratio 50 %, GPS on) 110 mA (squelch on, GPS on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 60 mA (battery saver on, saver ratio 50 %) 80 mA (squelch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 60 mA (battery saver on, saver ratio 50 %) 80 mA (squelch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 70 mA (battery saver on, saver ratio 50 %) 90 mA (squelch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	
Temperature Range	+14°F to + 140°F (-10°C to +50°C)	+14°F to +140°F (-10°C to +60°C)	+14°F to + 140°F (-10°C to +60°C)	+14°F to + 140°F (-10°C to +60°C)	+14°Fto + 140°F (-10°C to +60°C)	
Antenna Connector	BNCType	BNC Type	BNC Type	BNC Type	BNC Type	
Case Size (W × H × D)	2.4" × 5.2" × 1.3" (60 × 132 × 34 mm) with SBR-39LI	2.4" × 5.2" × 1.3" (62 × 133 × 34 mm) with SBR-39LI	2.4" × 5.2" × 1.3" (62 × 133 × 34 mm) with SBR-39LI	2.4" × 5.2" × 1.3" (62 × 133 × 34 mm) with SBR-39LI	2.1" × 4.1" × 1.2" (52 × 105 × 30 mm) with SBR-25LI	
Weight (approx.)	13.9 oz (395 g) with SBR-39LI, antenna and belt clip	14.5 oz (410 g) with SBR-39LI, antenna and belt clip	14.5 oz (410 g) with SBR-39LI, antenna and belt clip	14.5 oz (410 g) with SBR-39LI, antenna and belt clip	10.6 oz (300 g) with SBR-25LI, antenna and belt clip	
Receiver						
Circuit Type	Dauble-conversion superheterodyne	Double-conversion superheterodyne	Double-conversion superheterodyne	Double-conversion superheterodyne	Double-conversion superheterodyne	
IFs .	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz	47,25 MHz & 450 kHz	47.25 MHz & 450 kHz	
Sensitivity	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 μV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 μV (for 6 dB S/N with 1 kHz, 30 % modulation)	
Selectivity	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	
Adjacent CH, Selectivity	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	
	0.8 W @ 16 Ohms, 10 % THD	0.8 W @ 16 Ohms, 10 % THD	0.8 W @ 16 Ohms, 10 % THD	0.8 W @ 16 Ohms, 10 % THD	0.7 W @ 16 Ohms, 10 % THD	
Transmitter						
Power Output	6.0 W (PEP), 1.8 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	
Frequency Stability	Better than ±1 ppm (+14°F to + 140°F [-10°C to +60°C])	Better than ±1 ppm (+14°F to + 140°F [-10°C to +60°C])	Better than ±1 ppm (+14°F to + 140°F [-10°C to +60°C])	Better than ±1 ppm (+14°F to + 140°F [-10°C to +60°C])	Better than ±1 ppm (+14°F to +140°F [-10°C to +60°C])	
Modulation System	Low Level Amplitude Modulation	Low Level Amplitude Modulation	Low Level Amplitude Modulation	Low Level Amplitude Modulation	Low Level Amplitude Modulation	
Spurious Emission	> 70 dB below carrier	> 70 dB below carrier	> 70 dB below carrier	> 70 dB below carrier	> 70 dB below carrier	
Int. Microphane Type	Condenser	Condenser	Condenser	Condenser	Condenser	
Ext Mic. Impedance	150 Ohms	150 Ohms	150 Ohms	150 Ohms	150 Ohms	

^{*1} Only available in NOAA weather service areas.

GPS Unit (FTA-850L, FTA-750L)

Receiver Channels	66 Channels
Sensitivity	Less than -147 dBm
Time to First Fix	1 minute typical (@ Cold Start) 5 seconds typical (@ Hot Start)
Geodetic Datum	WGS84

Bluetooth® (FTA-850L)

Version	Version 4.2	
Class	Class 2	
Output Power	2 dBm	

Applicable MIL-STD

Standard: MIL-STD-810F, [MIL-STD-810H]								
MIL Standard	Method /	Procedures	MIL Standard	Method / Procedures				
Low Pressure	500.4/1,11	[500.6/1,11]	Humidity	507,4	[507.6/11]			
High Temperature	501.4/1,11	[501.7/1,11]	Salt Fog	509,4	[509.7/1]			
Low Temperature	502.4/1,11	[502.7/1,11]	Setting Dust	510.4/111	[510.7/1]			
Temperature Shock	503.4/1	[503.7/I-B]	Vibration	514.5/1	[514.8/1]			
Solar Radiation	505.4/1	[505,7/1]	Shock	516.5/I, IV	[516.8/I,IV]			
Rain Blowing/Drig	506.4 / 1 111	[506.6 / [] []	-	_				

Accessories & Options

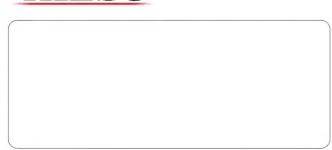
	SSM-BT10 Bluetooth Headset	SSM-20A Speaker Microphone	SEP-10A*1 Earphone for SSM-20A	SEP-11A Earphone	SBR-39LI Li-lon Battery Pack (7.2 V, 2,200 mAh)	SBR-25LI Li-lon Battery Pack (7.4 V, 1,950 mAh)	SBR-26LI Li-lon Battery Pack (7.4 V, 2,500 mAh)	SBH-11 Charger Cradle	SAD-25B/C/U* ² AC Charger	SBH-22 Charger Cradle	SAD-26B/C/U* ² AC Charger for SBH-22
FTA-850L	•	•		•	•			•	•		
FTA-750L		•	•	•	•			•	•		
FTA-550L/FTA-550		•	•	•	•			•	•		
FTA-450L		•		•				•	•		
FTA-250L			•	•		•	•			•	•
	SDD-12 Cigarette Lighter DC/DC Converter	SRA-20A Helical Antenna	SHB-11 Belt Clip	SHB-18 Belt Clip	SHB-110 Quick Release Holster	SCH-11 Belt Clip Hanger	SCU-42 Headset Adapter Cable	SBT-12 Alkaline Battery Tray	T9101606 USB Cable (miniUSB/USB-A)	T9101648 USB Cable (microUSB/USB-A)	SCU-37 USB Programming Cable
FTA-850L	•	•	•		•	•	•	•		•	
FTA-750L	•	•	•			•	•	•	•		
FTA-550L/FTA-550		•	•			•	•	•	•		
FTA-450L	•	•	•			•	•	•	•		
FTA-250L	•	•					•				•

^{*1} Requires SSM-20A *2 Depending on the transceiver version

Specifications are subject to change without notice or obligation.

About this brochure: We have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time in equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized YAESU Dealer for complete details.





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